### BRAIN RESEARCH: DEVELOPMENTAL BRAIN RESEARCH

VOL. 131 NOS. 1.2

CONTENTS

26 NOVEMBER 2001

127

Cited in Biological Abstracts (BIOSIS) - Chem. Abstracts - Index Medicus (MEDLINE) - Current Contents (Life Sci.) - EMBASE/Excerpta Medica -Psychological Abstracts (PsycINFO) - Pascal et Francis (INIST-CNRS) - RIS (Reference Update) - Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect and Neuroscion

Announcements

Brain Research Interactive Young Investigator Awards	¥
Call for papers-Gene Expression Patterns	vi
Interactive report (Also accessible on the World Wide Web at http://www.bres-interactive.com)  Detailed immunohistology of Pax6 protein and tyrosine hydroxylase in the early zebrafish brain suggests role of Pax6 gene in development of dopaminergic diencephalic neurons  M.F. Wullimann, E. Rink (Germany)	173
	.,,,
Research reports	
Target specific differentiation of peripheral trigeminal axons in rat-chick chimeric explant cocultures	4
A.S. Haeberle, R.S. Erzurumlu (USA) Astrocyte-mediated trophic support of developing serotonin neurons: effects of ethanol, buspirone, and \$100B	1
J.L. Eriksen, M.J. Druse (USA)	9
Cadherin-4 expression in the zebrafish central nervous system and regulation by ventral midline signaling	,
Q. Liu, J.A. Marrs, J.C. Chuang, P.A. Raymond (USA)	17
3α-Hydroxy-5α-pregnan-20-one levels and GABA, receptor-mediated <sup>16</sup> Cl <sup>-</sup> flux across development in rat cerebral cortex	
A. Chistina Grobin, A. Leslie Morrow (USA)	31
PACAP has a neurotrophic effect on cultured basal forebrain cholinergic neurons from adult rats	
A. Yuhara, C. Nishio, Y. Abiru, H. Hatanaka, N. Takei (Japan)	41
Fetal behavioural state changes following maternal fluoxetine infusion in sheep	
J. Leigh Morrison, C. Chien, N. Gruber, D. Rurak, W. Riggs (Canada)	47
Profound astrogenesis in the striatum of adult mice following nigrostriatal dopaminergic lesion by repeated MPTP administration	
L. Mao, YS. Lau, E. Petroske, J.Q. Wang (USA)	57
Developmental changes in gephyrin and collybistin mRNA expressions in the rat olfactory bulb K. Kuriyama, K. Ohno, F. Shu, T. Ueki, K. Sato (Japan)	67
Timing of cognitive deficits following neonatal seizures: relationship to histological changes in the hippocampus	07
Y. Sogawa, M. Monokoshi, D.C. Silveira, B. Ho Cha, M. Roberta Cilio, B.K. McCabe, X. Liu, Y. Hu, G.L. Holmes (USA)	73
Human Raphe Magnus Nucleus: a morphometric Golgi-Cox study with emphasis on sex differences	
M. Elena Cordero, A. Rodriguez, R. Torres, C.Y. Valenzuela (Chile)	85
Cocaine- and amphetamine-regulated transcript peptide-immunoreactivity in dorsal motor nucleus of the vagus neurons of immature rats	
S.L. Dun, S.J. Castellino, J. Yang, J.K. Chang, N.J. Dun (USA)	93
Sagittal sinus blood flow in the ovine fetus as a continuous measure of cerebral blood flow: relationship to behavioural state activity	
M.J. Czikk, S. Totten, J.H. Homan, S.E. White, B.S. Richardson (Canada)	103
β-Adrenoceptor signaling in the developing brain: sensitization or desensitization in response to terbutaline	
T.A. Slotkin, C.A. Tate, M.M. Cousins, F.J. Seidler (USA)	113
A critical maturational period of reduced brain vulnerability to injury. A study of cerebral glucose metabolism in cats	

(Contents continued inside)



T.D. Schmanke, J.R. Villablanca (USA)

### (contents continued)

Che	e and	 	1	220000

Glycinergic/GABAergic	synapses in	the lateral	superior	olive a	re excitatory	in	neonatal	C57B1/6J	mice	
DUM Kallarows	V V How	AT DES A ST.								

1.17

## Early maternal separation alters neuropeptide Y concentrations in selected brain regions in adult rats P.A. Jiménez-Vasquez, A.A. Mathé, J.D. Thomas, E.P. Riley, C.L. Ehlers (Sweden, USA)

143

# Cellular changes in motoneurons in a transgenic mouse model for amyotrophic lateral sclerosis as revealed by monoclonal antibody Py E.A.J. Joosten, M.G.H. Van Westerlaak, C. Biesheuvel, P.L. Woodhams, G.A. Brook, H. Veldman, P.R. Bär (The Netherlands, UK, Germany)

153

Galanin synaptic input to gonadotropin-releasing hormone perikarya in juvenile and adult female mice: implications for sexual maturity
G. Rajendren, X. Li (USA)

Telomerase protects developing neurons against DNA damage-induced cell death C. Lu, W. Fu, M.P. Mattson (USA)

161

### C. Lu, W. Fu, M.F. Matison (USA

167

#### Author index

193



To view articles from this journal, visit Neuroscion, the comprehensive neuroscience information service on the web.

Register today at www.neuroscion.com

